

## BIO-SKETCH

Provide the following information. **DO NOT EXCEED \_2\_ PAGES.**

TITLE (PROF/DR/): **DR.**

NAME: **ADETOUN AKITOYE**

POSITION: **LECTURER II**

SPECIALISATION:

EDUCATION/TRAINING *(Begin with Bachelor's degree or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.)*

INSTITUTION AND LOCATION	DEGREE (if applicable)	Completion Date MM/YYYY	FIELD OF STUDY
University of Lagos- Akoka, Lagos Nigeria	B.Sc.	04/2014	Industrial Chemistry
University of Lagos- Akoka, Lagos Nigeria	M.Sc.	10/2018	Chemistry
University of Lagos- Akoka, Lagos Nigeria	Ph.D.	12/2024	Chemistry

### A. Personal Statement

I am an early career researcher and food security enthusiast, with a passion for advancing sustainable solutions in food systems through Chemistry, using innovative materials science. My work focuses on developing smart, biodegradable packaging and sensor-integrated technologies from agricultural waste. With a strong commitment to reducing postharvest losses and promoting green chemistry and circular economy principles, I constantly seek to bridge scientific research with real-world impact—empowering youths, young scientists and local communities through innovation and advocacy. My ultimate goal is to translate research into scalable products and training models that address Africa's challenges in food security, unemployment, and sustainable development through collaborative, interdisciplinary approaches.

### B. Positions, Scientific Appointments, and Honours

- Vice Chairperson - National Technical Committee on Roots and Tree Crops of the Standard Organization of Nigeria| September, 2024
- Techwomen Award Fellowship| USA, October 2022
- Innovation Fellowship for Aspiring Inventors and Researchers (i-FAIR)| Vice President of Nigeria, December, 2020
- Youth Action Net Fellow/Social Innovators Program Award, LEAP Africa, Feb.2017- Present
- Scholar, Association of Commonwealth Universities, United Kingdom Aug. 2014
- Journal Reviewer (Elsevier Plant Nanobiology)

### C. Selected Most Recent Publications /Contributions to Knowledge (five **(5) maximum**)

1. Akitoye A, Blank D, Olaitan G, Akinbulu IA, Okiei W and Silva TA (2025). Shelf-life quality evaluation and smartphone-based phenolic analysis of cassava treated with varied chitosan formulations. *Food Chemistry* **467**: 142270.
2. Akitoye A, Olaitan G, Akinbulu I and Okiei W (2024). Effective chitosan-antioxidant treatments for extending cassava shelf-life evaluated using silver nanosensor. *Plant Nano Biology* **10**: 100115.

3. Akitoye A, Tochi NS, Akinbulu IA, Okiei WO and Silva TA (2024). Chitosan nanocomposites-based electrochemical sensors: A review. *International Research Journal of Pure and Applied Chemistry* **25**(4): 76–98.
4. Akitoye AA, Ibrahim GO and Okiei WO (2024). Chitosan-based coatings for shelf-life elongation of cassava root tubers. *Moroccan Journal of Chemistry* **12**(1). <https://doi.org/10.48317/IMIST.PRSM/morjchem-v12i1.42>
5. Akitoye A and Iluebbey P (2023). Agropreneurship opportunities presented by Russia-Ukraine war: Harnessing cassava innovation in Africa. *Journal of African Employment, Entrepreneurship & Skills Development (JAEESD) Special Issue*: 30–60. <https://arua-coe-usd.com/>

**D. Collaborators/ Networks (International inclusive, five (5) maximum)**

- i. Prof. Tiago Almeida Silva, Federal University of Vicosa, Brazil
- ii. Jessica B. Lyons, Gates Foundation, USA
- iii. James McManus, Department of Agriculture, California, USA
- iv. Dr. Peter Iluebbey, IITA, Ibadan

**E. Picture Specification (2 x 2 inches or 51 x 51 mm) with (white Background) or (Educational Infrastructure/ Laboratory Facilities Background)**

